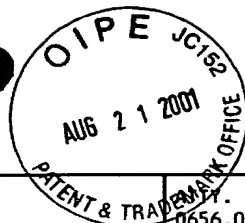


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## INFORMATION DISCLOSURE STATEMENT

 INVENTOR DOCKET NO.  
0656.0370004

 APPLICATION NO.  
09/397,967

 APPLICANT  
IHLE *et al.*

 FILING DATE  
September 17, 1999

 GROUP  
1632

## U.S. PATENT DOCUMENTS

| EXAMINER INITIAL |     | DOCUMENT NUMBER | DATE       | NAME                 | CLASS | SUB-CLASS | FILING DATE |
|------------------|-----|-----------------|------------|----------------------|-------|-----------|-------------|
| QN               | AA1 | 5,190,931       | 03/02/1993 | Inouye <i>et al.</i> | 435   | 91        | 11/15/1989  |
| QN               | AB1 | 6,210,654 B1    | 04/03/2001 | Ihle <i>et al.</i>   | 424   | 9.2       | 10/08/1997  |
|                  | AC  |                 |            |                      |       |           |             |
|                  | AD  |                 |            |                      |       |           |             |
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## FOREIGN PATENT DOCUMENTS

| EXAMINER INITIAL |     | DOCUMENT NUMBER | DATE       | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|------------------|-----|-----------------|------------|---------|-------|-----------|-------------|
| QN               | AL1 | WO 92/10519     | 06/25/1992 | WIPO    |       |           | Yes<br>No   |
|                  | AM  |                 |            |         |       |           | Yes<br>No   |
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|                  | AO  |                 |            |         |       |           | Yes<br>No   |
|                  | AP  |                 |            |         |       |           | Yes<br>No   |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|    |   |   |
|----|---|---|
| AR | 1 | <del>Argetsinger, L.S. <i>et al.</i>, "Identification of JAK2 as a Growth Hormone Receptor-Associated Tyrosine Kinase," <i>Cell</i> 74:237-244, Cell Press (July 1993).</del>   |
| AS | 1 | <del>Bartholomew, C. and J.N. Ihle, "Retroviral Insertions 90 Kilobases Proximal to the <i>Evi-1</i> Myeloid Transforming Gene Activate Transcription from the Normal Promoter," <i>Mol. Cell Biol.</i> 11(4):1820-1828, American Society for Microbiology (1991).</del>  |
| AT | 1 | <del>Bird, T.A. <i>et al.</i>, "Evidence that MAP (Mitogen-Activated Protein) Kinase Activation May Be a Necessary but not Sufficient Signal for a Restricted Subset of Responses in IL-1-Treated Epidermoid Cells," <i>Cytokine</i> 4(6):429-440, International Cytokine Society, Academic Press Ltd. (November 1992).</del> |

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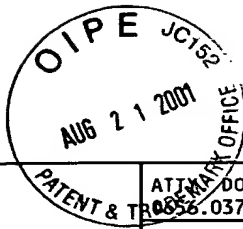
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## U.S. PATENT DOCUMENTS

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|                     | AL |                 |      |         |       |           | Yes<br>No   |
|                     | AM |                 |      |         |       |           | Yes<br>No   |
|                     | AN |                 |      |         |       |           | Yes<br>No   |
|                     | AO |                 |      |         |       |           | Yes<br>No   |
|                     | AP |                 |      |         |       |           | Yes<br>No   |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|               |              |   |
|---------------|--------------|---|
| <del>AR</del> | <del>2</del> | <del>Campbell, G.S. <i>et al.</i>, "Evidence for Involvement of the Growth Hormone Receptor-associated Tyrosine Kinase in Actions of Growth Hormone," J. Biol. Chem. 268(10):7427-7434, The American Society for Biochemistry and Molecular Biology, Inc. (April 1993).</del>               |
| <del>AS</del> | <del>2</del> | <del>Carroll, M.P. <i>et al.</i>, "Erythropoietin Induces Raf-1 Activation and Raf-1 is Required for Erythropoietin-mediated Proliferation," J. Biol. Chem. 266(23):14964-14969, The American Society for Biochemistry and Molecular Biology, Inc. (1991).</del>                            |
| <del>AT</del> | <del>2</del> | <del>Carroll, M.P. <i>et al.</i>, "Interleukin-3 and Granulocyte-Macrophage Colony-stimulating Factor Mediate Rapid Phosphorylation and Activation of Cytosolic c-ras," J. Biol. Chem. 265(32):19812-19817, The American Society for Biochemistry and Molecular Biology, Inc. (1990).</del> |

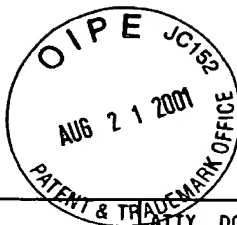
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|------------------|----|-----------------|------|---------|-------|-----------|-------------|
|                  | AL |                 |      |         |       |           | Yes<br>No   |
|                  | AM |                 |      |         |       |           | Yes<br>No   |
|                  | AN |                 |      |         |       |           | Yes<br>No   |
|                  | AO |                 |      |         |       |           | Yes<br>No   |
|                  | AP |                 |      |         |       |           | Yes<br>No   |

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| AT | 3 | Edgington, S.M., "Molecular Crosstalk: Will virology and growth-factor research aid cytokine drug discovery?" <i>Biotecnol.</i> 11:465-468, Nature Publishing Co. (April 1993).  |

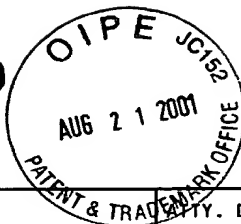
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|                     | AN |                 |      |         |       |           | Yes<br>No   |
|                     | AO |                 |      |         |       |           | Yes<br>No   |
|                     | AP |                 |      |         |       |           | Yes<br>No   |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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|----|----|---|--|
| QW | AR | 4 | Firmbach-Kraft, I. <i>et al.</i> , "tyk2, prototype of a novel class of non-receptor tyrosine kinase genes," <i>Oncogene</i> 5:1329-1336, Macmillan Press Ltd. (1990).   |
|    | AS | 4 | Fu, X.-Y., "A Transcription Factor with SH2 and SH3 Domains is Directly Activated by an Interferon $\alpha$ -Induced Cytoplasmic Protein Tyrosine Kinase(s)," <i>Cell</i> 70:323-335, Cell Press (July 1992).  |
|    | AT | 4 | Fu, X.-Y. <i>et al.</i> , "The proteins of ISGF-3, the interferon $\alpha$ -induced transcriptional activator, define a gene family involved in signal transduction," <i>Proc. Natl. Acad. Sci. USA</i> 89:7840-7843, National Academy of Sciences of the USA (August 1992). |

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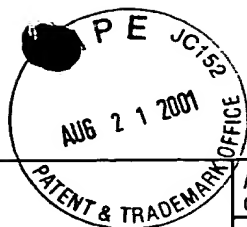
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|                     | AM |                 |      |         |       |           | Yes<br>No   |
|                     | AN |                 |      |         |       |           | Yes<br>No   |
|                     | AO |                 |      |         |       |           | Yes<br>No   |
|                     | AP |                 |      |         |       |           | Yes<br>No   |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|  |    |   |  |
|--|----|---|--|
|  | AR | 5 | Fung, M.-R. <i>et al.</i> , "A Tyrosine Kinase Physically Associates With the $\beta$ -Subunit of the Human IL-2 Receptor," <i>J. Immunol.</i> 147(4):1253-1260, The American Association of Immunologists (1991).   |
|  | AS | 2 | Gilmour, K.C. and N.C. Reich, "Receptor to nucleus signaling by prolactin and interleukin-2 via activation of latent DNA-binding factors," <i>Proc. Natl. Acad. Sci. USA</i> 91:6850-6854, National Academy of Sciences of the USA (July 1994).                        |
|  | AT | 5 | Goodman, P.A. <i>et al.</i> , "Role of Tyrosine Kinases in Induction of the <i>c-jun</i> Proto-oncogene in Irradiated B-lineage Lymphoid Cells," <i>J. Biol. Chem.</i> 273:17742-17748, The American Society for Biochemistry and Molecular Biology, Inc. (July 1998). |

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Quang Nguyen

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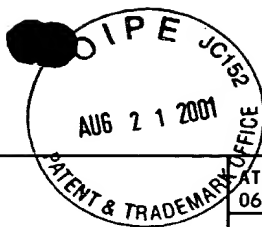
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|                     | AL |                 |      |         |       |           | Yes<br>No   |
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|                     | AN |                 |      |         |       |           | Yes<br>No   |
|                     | AO |                 |      |         |       |           | Yes<br>No   |
|                     | AP |                 |      |         |       |           | Yes<br>No   |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|    |    |   |  |
|----|----|---|--|
|    | AR | 6 | <del>Hanks, S.K. <i>et al.</i>, "The Protein Kinase Family: Conserved Features and Deduced Phylogeny of the Catalytic Domains," <i>Science</i> 241:42-52, Association for the Advancement of Science (1988).</del> |
| QW | AS | 6 | Harpur, A.G. <i>et al.</i> , "JAK2, a third member of the JAK family of protein tyrosine kinases," <i>Oncogene</i> 7:1347-1353, Macmillan Press Ltd. (July 1992).  |
|    | AT | 6 | <del>Howard, O.M.Z. <i>et al.</i>, "Characterization of a class 3 tyrosine kinase," <i>Oncogene</i> 7:895-900, Macmillan Press Ltd. (May 1992).</del>  |

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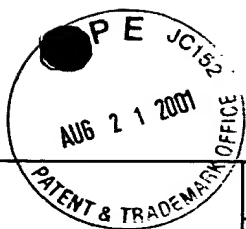
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|                     | AL |                 |      |         |       |           | Yes<br>No   |
|                     | AM |                 |      |         |       |           | Yes<br>No   |
|                     | AN |                 |      |         |       |           | Yes<br>No   |
|                     | AO |                 |      |         |       |           | Yes<br>No   |
|                     | AP |                 |      |         |       |           | Yes<br>No   |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|    |   |   |
|----|---|---|
| AR | 7 | Hunter, T., "A Thousand and One Protein Kinases," <i>Cell</i> 50:823-829, Cell Press (1987).  |
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| AT | 7 | Ihle, J.N., "Interleukin-3 and Hematopoiesis," in: <i>Interleukins: Molecular Biology and Immunology</i> , Kishimoto, T., ed., Karger, Basel, pp. 65-106. (1992). |

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|--|----|---|--|
|  | AR | 8 | <del>Ihle, J.N. and D. Askew, "Origins and Properties of Hematopoietic Growth Factor-Dependent Cell Lines," <i>Int. J. Cell Cloning</i> 7(2):68-91, AlphaMed Press (1989).</del>   |
|  | AS | 8 | <del>Ihle, J.N., "Cytokine receptor signalling," <i>Nature</i> 377:591-594, Macmillan Publishers Ltd. (October 1995).</del>  |
|  | AT | 8 | <del>Ip, N.Y. <i>et al.</i>, "CNTF and LIF Act on Neuronal Cells via Shared Signaling Pathways That Involve the IL-6 Signal Transducing Receptor Component gp130," <i>Cell</i> 69:1421-1432, MIT Press, (June 1992).</del> |

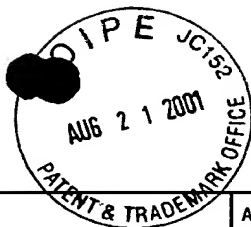
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## U.S. PATENT DOCUMENTS

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|                     | AL |                 |      |         |       |           | Yes<br>No   |
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|                     | AO |                 |      |         |       |           | Yes<br>No   |
|                     | AP |                 |      |         |       |           | Yes<br>No   |

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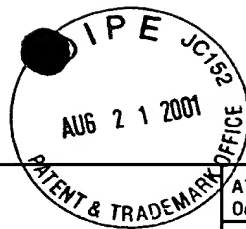
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|                     | AP |                 |      |         |       |           | Yes<br>No   |

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| <del>AT</del> | <del>10</del> | <del>Maliszewski, C. R. and Welte, K., "Soluble receptors for IL-1 and IL-4: biological activity and therapeutic potential," TibTech 8:324-329, Elsevier Science Publishers Ltd (1990).</del>   |

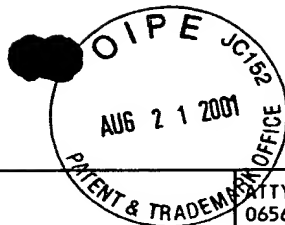
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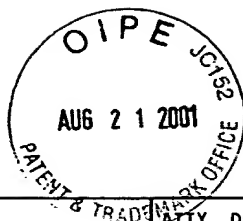
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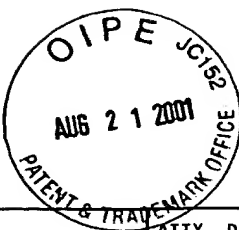
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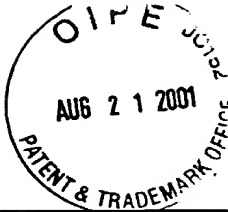
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|                     | AO |                 |      |         |       |           | Yes<br>No   |
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|  |    |    |  |
|--|----|----|--|
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|--|----|----|---|
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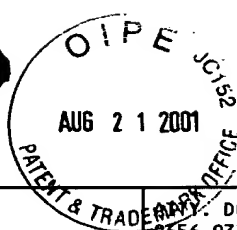


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|                     | AO |                 |      |         |       |           | Yes<br>No   |
|                     | AP |                 |      |         |       |           | Yes<br>No   |

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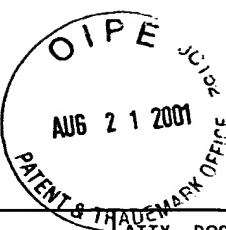
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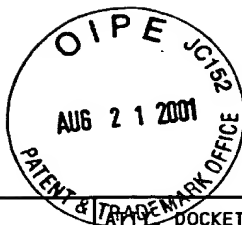
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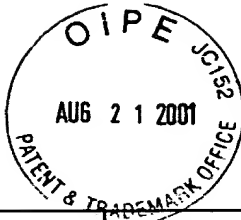
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|---------------|---------------|---|
| <del>AR</del> | <del>23</del> | <del>Wang, Y. and G.M. Fuller, "Phosphorylation and Internalization of gp130 Occur After IL-6 Activation of Jak2 Kinase in Hepatocytes," <i>Molecular Biology of the Cell</i> 5:819-828, American Society for Cell Biology (July 1994).</del> |
| <del>AS</del> | <del>23</del> | <del>Wilks, A.F., "Two putative protein-tyrosine kinases identified by application of the polymerase chain reaction," <i>Proc. Natl. Acad. Sci. USA</i> 86: 1603-1607, National Academy of Sciences of the USA (1989).</del>                  |
| <del>AT</del> | <del>23</del> | <del>Wilks, A.F., "Structure and Function of the Protein Tyrosine Kinases," <i>Prog. Growth Factor Res.</i> 2:97-111, Pergamon Press plc (1990).</del>  |

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| AN | AS | 24 | Wilks, A.F. <i>et al.</i> , "Two Novel Protein-Tyrosine Kinases, Each with a Second Phosphotransferase-Related Catalytic Domain, Define a New Class of Protein Kinase," <i>Mol. Cell. Biol.</i> 11(4):2057-2065, American Society for Microbiology (1991). |
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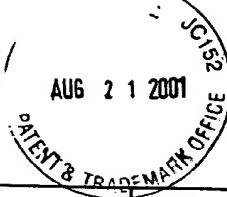


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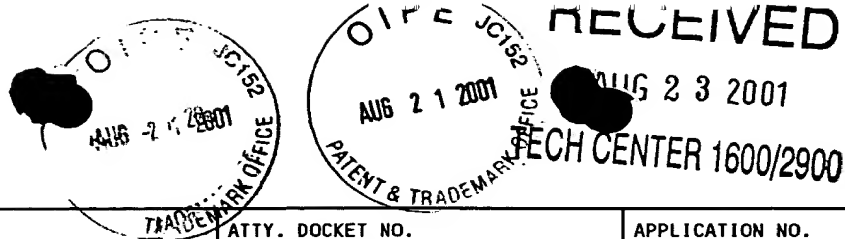
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|    | AR | 25 | Witthuhn, B.A. <i>et al.</i> , "JAK2 Associated with the Erythropoietin Receptor and Is Tyrosine Phosphorylated and Activated following Stimulation with Erythropoietin," <i>Cell</i> 74:227-236, MIT Press (July 1993). |
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EXAMINER

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## INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.  
0656.0370004APPLICATION NO.  
09/397,967APPLICANT  
IHLE *et al.*FILING DATE  
September 17, 1999GROUP  
1632

## U.S. PATENT DOCUMENTS

| EXAMINER<br>INITIAL |    | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB-CLASS | FILING DATE |
|---------------------|----|-----------------|------|------|-------|-----------|-------------|
|                     | AA |                 |      |      |       |           |             |
|                     | AB |                 |      |      |       |           |             |
|                     | AC |                 |      |      |       |           |             |
|                     | AD |                 |      |      |       |           |             |
|                     | AE |                 |      |      |       |           |             |
|                     | AF |                 |      |      |       |           |             |
|                     | AG |                 |      |      |       |           |             |
|                     | AH |                 |      |      |       |           |             |
|                     | AI |                 |      |      |       |           |             |
|                     | AJ |                 |      |      |       |           |             |
|                     | AK |                 |      |      |       |           |             |

## FOREIGN PATENT DOCUMENTS

| EXAMINER<br>INITIAL |    | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|---------------------|----|-----------------|------|---------|-------|-----------|-------------|
|                     | AL |                 |      |         |       |           | Yes<br>No   |
|                     | AM |                 |      |         |       |           | Yes<br>No   |
|                     | AN |                 |      |         |       |           | Yes<br>No   |
|                     | AO |                 |      |         |       |           | Yes<br>No   |
|                     | AP |                 |      |         |       |           | Yes<br>No   |

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|  | AR | 26 | <del>Yoshimura, A. and H. S. LeDish, "In Vitro Phosphorylation of the Erythropoietin Receptor and an Associated Protein," Mol. Cell. Biol. 12:706-715, American Society for Microbiology (February 1992).</del>                 |
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